

Music & the Internet

MUMT 301

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Plan

- Introduction
 - Course description
 - What do you want to be when you grow up?
 - Nickname?
- MTCL
 - Lab hours / building hours
 - Policies
 - Login
- music.mcgill.ca (web server)
 - Login (mumt123)
 - Directory structure
 - Basic Unix/Linux commands: ls, cd, passwd, pico, man
- Your computer
 - ftp (Fugu, Cyberduck)
 - Komodo Edit
- Introduction to the Internet (with a 15 min. break)
- Review of HTML and the Assignment #1

Introduction to the Internet

- What is the Internet?
- History of Internet
- What is the web?
- The Internet network

What is Internet?

- The difference between:
 - intranet – within an organization, e.g., McGill VPN
 - internet – between organizations
 - extranet – network available outside of an organization
 - The Internet – the global network of computers

History of the Internet

Did Al Gore invent Internet?

Did Al Gore invent the Internet?

<http://www.youtube.com/watch?v=BnFJ8cHAlco>

Overview

- In defense of Al Gore:
 - <http://www.eecs.umich.edu/~fessler/misc/funny/gore.net.txt>
- History of the Internet
- History of the World Wide Web

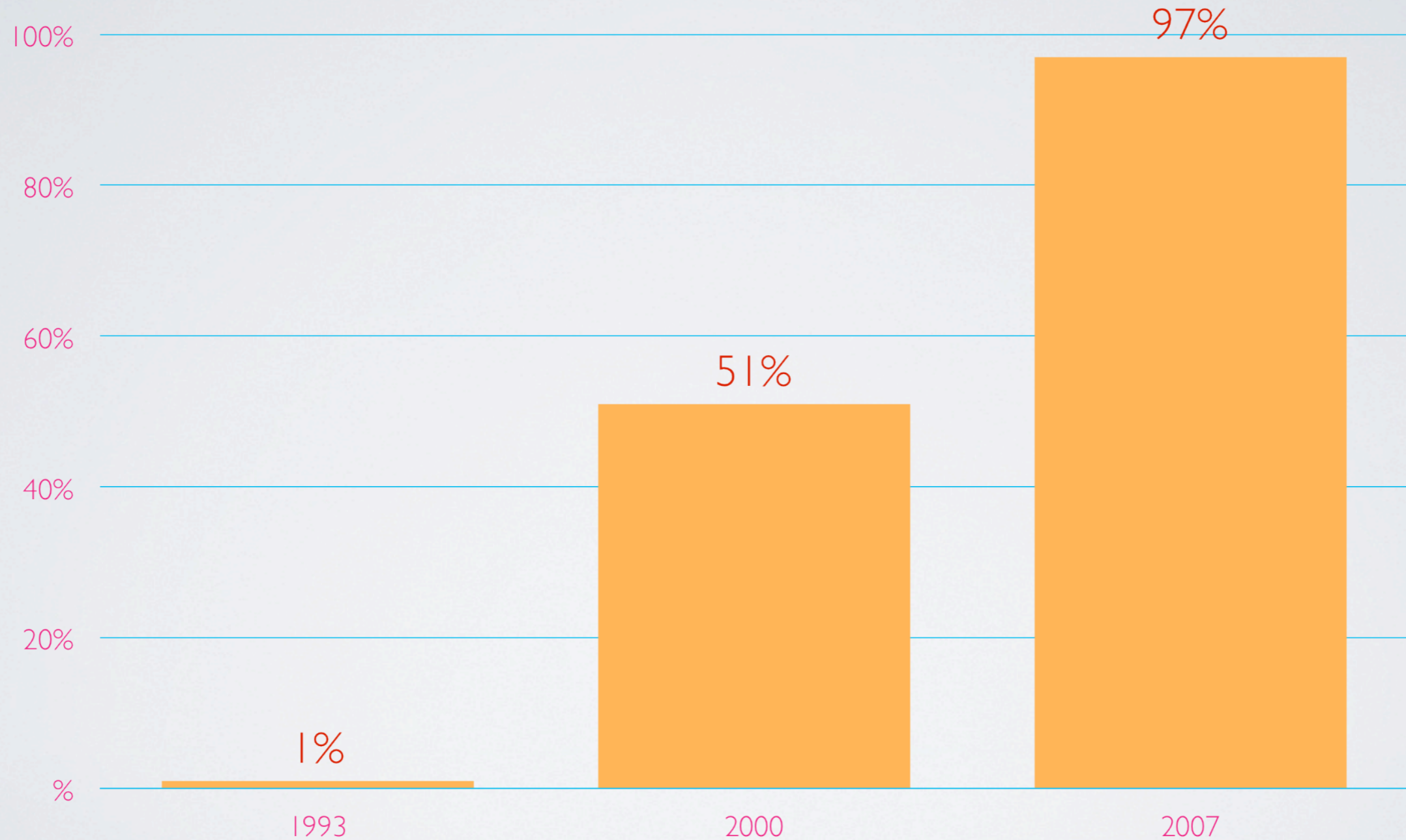
History of the Internet

- 1969: ARPANET connected four nodes: UCLA Stanford, UCSB, and University of Utah
- 1980: Ethernet standard introduced
- 1981: Access to ARPANET expanded: e.g., BITNET, CSNET
- 1982: Internet Protocol (TCP/IP) standardized
- 1982: Simple Mail Transfer Protocol (SMTP) defined
- 1983: Domain Name Systems (DNS) / Name server
- 1986: Internet link to McGill
- 1986: NSFNET created (backbone speed of 56Kbps)

History of the Internet: Commercialization

- 1990's: Emergence of Internet Service Providers (ISPs)
- 1995: Complete commercialization (no restriction to carry commercial traffic)
 - public e-mail (AOL)
 - instant messaging
 - VoIP (Voice over Internet Protocol) (e.g., Skype)
 - WWW
 - online shopping, wikis, blogs, Facebook, Twitter

The percentage of two-way communication carried on the Internet

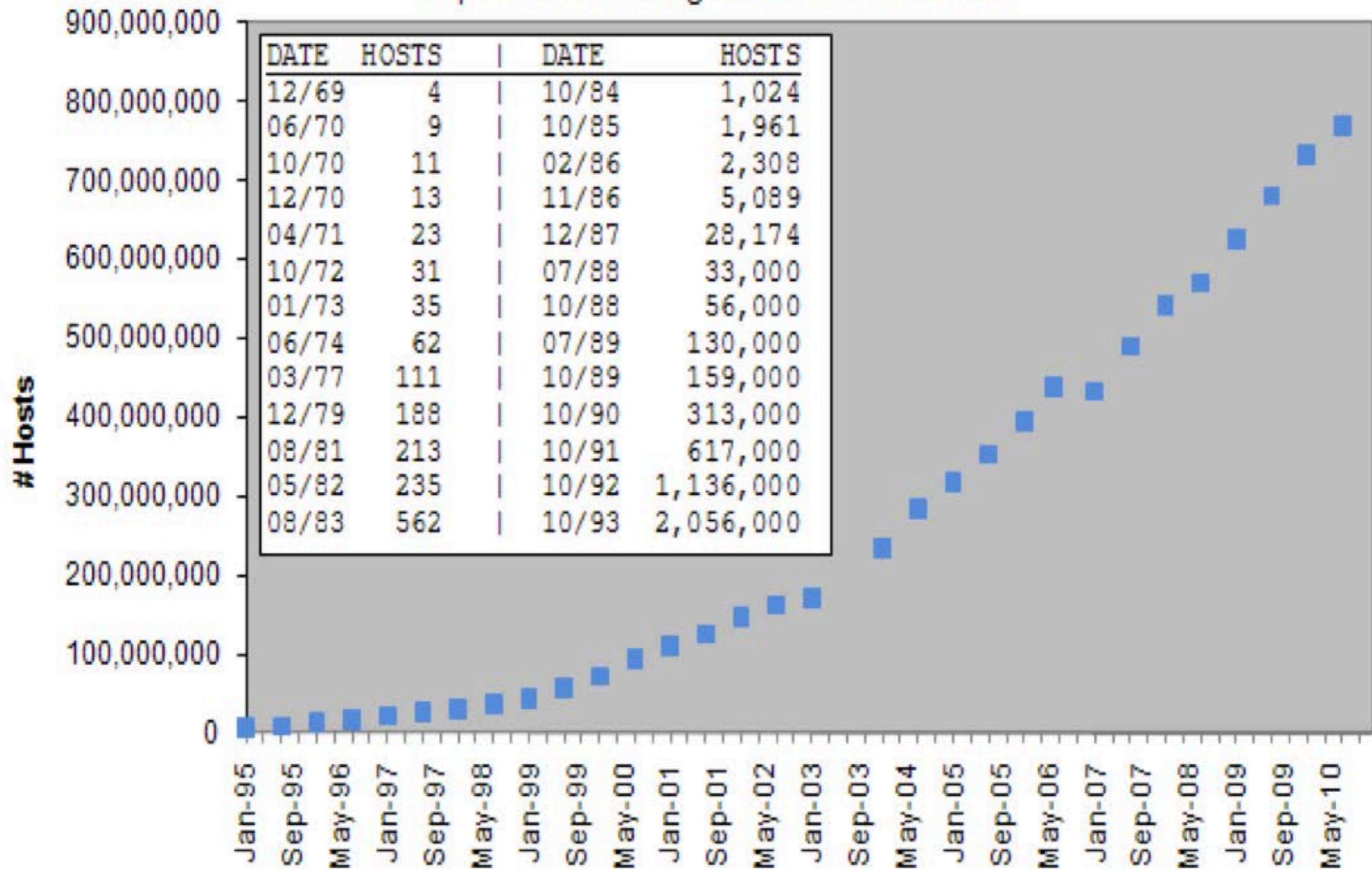


The number of computers on the Internet



Figure: Internet Hosts

Hobbes' Internet Timeline Copyright ©2010 Robert H Zakon
<http://www.zakon.org/robert/internet/timeline/>

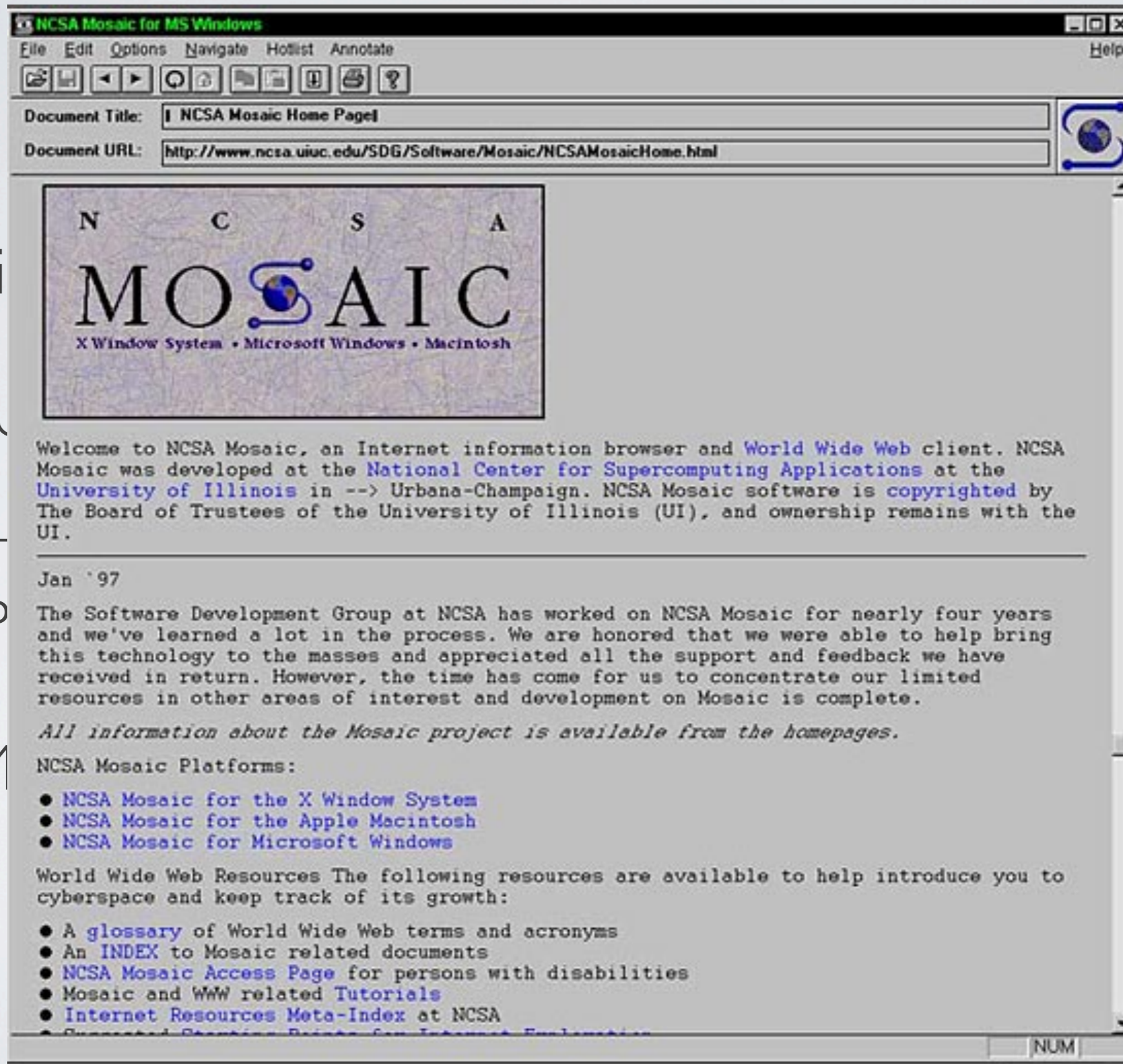


History of World Wide Web: Precursors

- 1990: Archie search engine
 - Developed at McGill to search FTP sites (~200 sites)
- 1991: WAIS (Wide Area Information Server)
- 1991: Gopher (search documents)

History of WWW

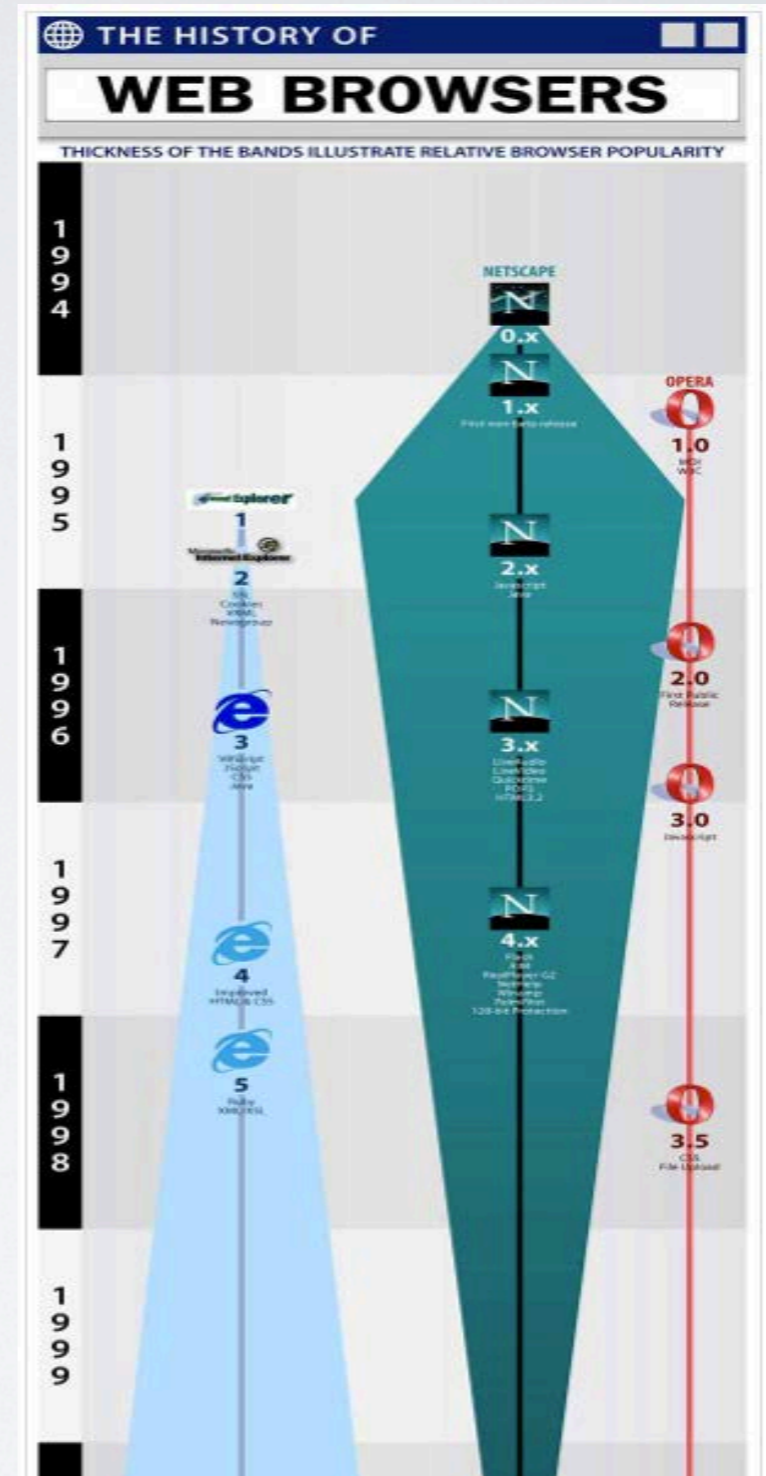
- 1990: Sir
- URI (U
- HTML
- HTTP
- 1993: M



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History of Web Browsers

- favbrowsers.com



History of WWW: Search Engines

- 1993: Excite



- 1994: Yahoo; WebCrawler (first full-text search engine),
Lycos



- 1995: Infoseek, AltaVista (natural language inquiries)



- 1997: [Google](#)

- <http://www.youtube.com/watch?v=9hIQjrMHTv4>